

Claims

1. Method for coding impulse responses of audio signals,  
wherein said impulse responses allow the reproduction  
5 of sound signals corresponding to a certain room characteristic, comprising:  
generating an impulse response of a room for a sound source; and  
inserting parameters representing said generated  
10 impulse response into multiple successive control parameter fields (15, 16, 17, 18); wherein a first control parameter field (15) contains information about the number and content of the following control parameter fields.  
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2. Method according to claim 1, wherein the sound signals are encoded using the MPEG 4 standard and the room impulse response is transmitted via the Structured Audio interface in the PROTO mechanism using multiple successive field updates for the params[128]-field.  
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3. Method according to claim 1 or 2, wherein a scalable transmission of the room impulse responses is enabled.
- 25 4. Method according to claim 3, wherein in a broadcast mode short versions of room impulse responses are frequently transmitted and a long sequence is less frequently transmitted.
- 30 5. Method according to claim 3, wherein in an interleaved mode a first part of the room impulse responses is frequently transmitted and the later part of the room impulse responses is less frequently transmitted.
- 35 6. Method for decoding impulse responses of audio signals, wherein said impulse responses allow the reproduction

of sound signals corresponding to a certain room characteristic, comprising:

separating parameters representing an impulse response from multiple successive control parameter fields, wherein a first control parameter field contains information about the number and content of the following control parameter fields;

storing the separated parameters in an additional memory of a node; and

using said stored parameters for the calculation of the room characteristic.

7. Method according to claim 6, wherein the sound signals are decoded using the MPEG 4 standard and the room impulse response is received via the Structured Audio interface in the PROTO mechanism using multiple successive field updates for the params[128]-field.

8. Method according to claim 6 or 7, wherein the room impulse responses are received following a scalable transmission of said room impulse responses.

9. Method according to claim 8, wherein in a broadcast mode short versions of room impulse responses are frequently received and a long sequence is less frequently received.

10. Method according to claim 8, wherein in an interleaved mode a first part of the room impulse responses is frequently received and the later part of the room impulse responses is less frequently received.

11. Apparatus for performing a method according to any of the preceding claims.